

## **Penentuan Status Gizi Balita Menggunakan fuzzy Mamdani berbasis Android**

**IRFAN TRI SETYO UTOMO**

(Pembimbing : Aisyatul Karima, S.Kom, MCS)

*Teknik Informatika - S1, FIK, Universitas Dian Nuswantoro*

*www.dinus.ac.id*

*Email : 111201206745@mhs.dinus.ac.id*

### **ABSTRAK**

Status gizi balita adalah suatu indikator yang mencerminkan tingkat kesejahteraan suatu masyarakat. Berdasarkan hasil wawancara dengan pihak Pukesmas mereka memerlukan alat bantu yang bisa diakses secara mobile dan mudah di gunakan dan dapat mempermudah pihak Puskesmas untuk menentukan status gizi balita. Di karena kan pegawai Pukesmas khususnya bagian ahli gizi dan kader-kader posyandu yang ada di Pukesmas Todanan sudah banyak menggunakan smartphone berbasis Android. Android di pilih dalam penelitian ini karena teknologi Android beberapa tahun belakangan ini sedang trend dan teknologi operasi sistemnya perkembangannya sangat cepat. Sehingga banyak perusahaan handphone/gadget yang menggunakan system operasi ini. Untuk mengatasi masalah ini dibutuhkan sebuah sistem yang dapat membantu menentukan status gizi balita dengan menggunakan metode Logika Fuzzy Mamdani. Hal ini memungkinkan sistem menentukan status gizi dengan perhitungan yang tepat dan diharapkan sistem ini dapat mem bantu pihak posyandu dan kader posyandu dalam menentukan status gizi balita. Tahapan pengujian dilakukan dengan membandingkan antara perhitungan WHO dan Fuzzy Mandani dengan nilai input yang sama. Dari 30 data balita yang di uji 25 data dinyatakan sesuai dan 5 data di nyatakan tidak sesuai.

Kata Kunci : Gizi, Posyandu, Android, Fuzzy

## **Determination of Nutrition Status of Toddlers using Fuzzy Mamdani Based On Android**

**IRFAN TRI SETYO UTOMO**

(Lecturer : Aisyatul Karima, S.Kom, MCS)

*Bachelor of Informatics Engineering - S1, Faculty of Computer  
Science, DINUS University*

*www.dinus.ac.id*

*Email : 111201206745@mhs.dinus.ac.id*

### **ABSTRACT**

The status of children under five's nutrient is an indicator which shows the citizen's prosperity. Based on the interview which has been conducted toward the staff of Puskesmas, they need an instrument which is easy to use, could be accessed by phone, and make the staff of Puskesmas easier to determine the children under five's nutrient status. It's done just because the nutrient staff and the staff of posyandu in the Puskesmas Todanan have been used smartphone, especially android system. The android is chose because the used of android has significant development for several years later. So, many gadget companies used this operation system. To solve this problem, it is needed a system which could help determining children under five's nutrient status by using Fuzzy Mamdani Logical method. It is possible for the system determining nutrient status with accurate accounting and this system hopefully could help the staff of Posyandu in determining children under five's nutrient status. The stage of experiment is done by comparing between the accounting of WHO and Fuzzy Mamdani with the same input score. From 30 data of children under five which been tested, 25 data are classified as appropriate or compatible, and 5 data are classified as inappropriate/incompatible.

**Keyword** : Nutrient, Posyandu, Android, Fuzzy